

AMENDMENTS TO THE CLAIMS

1. (Twice amended) A solution composition consisting essentially of or a reaction product of comprising or [is] produced by combining a titanium compound, a glycol, a phosphorus compound, and optionally water wherein said phosphorus compound is selected from the group consisting of a polyphosphoric acid or a salt thereof, a phosphonate ester, a pyrophosphoric acid or salt thereof, a pyrophosphorous acid or salt thereof, and combinations of two or more thereof and said composition remains soluble upon being exposed to air at about 25°C.
2. (Currently Amended) A composition according to claim 1 or claim 28 wherein said titanium compound has the formula $Ti(OR)_4$, each R is independently selected from the group consisting of an alkyl radical, a cycloalkyl radical, aralkyl radical, and combinations of two or more thereof, and each R contains from 1 to about 30 carbon atoms per radical.
3. (Currently Amended) A process composition according to claim 2 wherein said titanium compound is selected from the group consisting of tetra isopropyl titanate, tetra n-butyl titanate, and combinations thereof.
4. (Currently Amended) A process composition according to claim 1 or claim 28 wherein said glycol is selected from the group consisting of alkylene glycol, polyalkylene glycol, alkoxylated glycol, and combinations of two or more thereof.
5. (Original) A composition according to claim 4 wherein said glycol is selected from the group consisting of ethylene glycol, propylene glycol, isopropylene glycol, butylene glycol, 1-methyl propylene glycol, pentylene glycol, diethylene glycol, triethylene glycol, and combinations of two or more thereof.
6. (Original) A composition according to claim 3 wherein said glycol is ethylene glycol.
7. (Original) A composition according to claim 2 wherein said salt is selected from the group consisting of an alkali metal salt, an alkaline earth metal salt, and combinations thereof.
8. (Original) A composition according to claim 2 wherein said polyphosphoric acid has the formula of $H_{n+2}P_nO_{3n+1}$; said phosphonate ester is selected from the group consisting of $(R^1O)_2P(O)ZCO_2R^1$, di(polyoxyethylene) hydroxymethyl phosphonate, and

combinations thereof; n is ≥ 2 ; each R¹ is independently selected from the group consisting of H, C₁₋₄ alkyl, and combinations thereof; and Z is selected from the group consisting of C₁₋₅ alkylene, C₁₋₅ alkylidene, and combinations thereof.

9. (Currently Amended) A composition according to claim 1 ~~5~~ wherein said phosphorus compound is selected from the group consisting of potassium tripolyphosphate, sodium tripolyphosphate, potassium tetrapolyphosphate, sodium pentapolypophosphate, sodium hexapolypophosphate, ethyl phosphonate, propyl phosphonate, hydroxymethyl phosphonate, di(polyoxyethylene) hydroxymethyl phosphonate, methylphosphonoacetate, ethyl methylphosphonoacetate, methyl ethylphosphonoacetate, ethyl ethylphosphonoacetate, propyl dimethylphosphonoacetate, methyl diethylphosphonoacetate, triethyl phosphonoacetate, triethyl phosphonoacetate, and combinations of two or more thereof.

10. (Original) A composition according to claim 3 wherein said phosphorus compound is potassium tripolyphosphate.

11. (Original) A composition according to claim 6 wherein said phosphorus compound is potassium tripolyphosphate.

12. (Currently Amended) A composition consisting essentially of comprising or is produced by combining tetraisopropyl titanate, ethylene glycol, potassium tripolyphosphate, and optionally water.

13. (Currently Amended) A solution composition consisting essentially of comprising or is produced by combining a titanium compound, a glycol, water, and optionally a phosphorus compound wherein said titanium compound has the formula Ti(OR)₄, each R is independently selected from the group consisting of an alkyl radical, a cycloalkyl radical, aralkyl radical, and combinations of two or more thereof, and each R contains from 1 to about 30 carbon atoms per radical and said titanium content is lower than 0.8% by weight; said glycol is selected from the group consisting of alkylene glycol, polyalkylene glycol, alkoxylated alcohol, and combinations of two or more thereof; and said phosphorus compound is selected from the group consisting of a polyphosphoric acid or a salt thereof, a phosphonate ester, a pyrophosphoric acid or salt thereof, a pyrophosphorous acid or salt thereof, and combinations of two or more thereof.

14. (Original) A composition according to claim 13 wherein polyphosphoric acid has the formula of H_{n+2}P_nO_{3n+1}; said phosphonate ester is selected from the group consisting

of $(R^1O)_2P(O)ZCO_2R^1$, di(polyoxyethylene) hydroxymethyl phosphonate, and combinations thereof; n is ≥ 2 ; each R¹ is independently selected from the group consisting of H, C₁₋₄ alkyl, and combinations thereof; and Z is selected from the group consisting of C₁₋₅ alkylene, C₁₋₅ alkylidene, and combinations thereof.

15. (Original) A composition according to claim 13 wherein said glycol is selected from the group consisting of ethylene glycol, propylene glycol, isopropylene glycol, butylene glycol, 1-methyl propylene glycol, pentylene glycol, diethylene glycol, triethylene glycol, and combinations of two or more thereof; and said phosphorus compound is selected from the group consisting of potassium tripolyphosphate, sodium tripolyphosphate, potassium tetrapolyphosphate, sodium pentapolyphosphate, sodium hexapolyphosphate, ethyl phosphonate, propyl phosphonate, hydroxymethyl phosphonate, di(polyoxyethylene) hydroxymethyl phosphonate, methylphosphonoacetate, ethyl methylphosphonoacetate, methyl ethylphosphonoacetate, ethyl ethylphosphonoacetate, propyl dimethylphosphonoacetate, methyl diethylphosphonoacetate, triethyl phosphonoacetate, di(polyoxyethylene) hydroxymethyl phosphonate, triethyl phosphonoacetate, and combinations of two or more thereof.

16. (Currently Amended) A composition according to claim 13 wherein said titanium compound is tetraisopropyl titanate; said glycol is ethylene glycol, and said phosphorus compound is potassium tripolyphosphate and said titanium content is 0.05% to 0.5%.

17. (Original) A composition according to claim 16 wherein said composition ~~comprising or is produced by combining said~~ consists essentially of said tetraisopropyl titanate, said ethylene glycol, said potassium tripolyphosphate, and said water.

18. (Cancelled)

19-20. (Previously Cancelled)

21-27. (Cancelled)

28. (New) A solution composition comprising or produced by combining a titanium compound, a glycol, a phosphorus compound, and optionally water wherein said phosphorus compound is selected from the group consisting of potassium tripolyphosphate, sodium tripolyphosphate, potassium tetra phosphate, sodium pentapolyphosphate, sodium hexapolyphosphate, ethyl phosphonate, propyl phosphonate, hydroxymethyl phosphonate,

di(polyoxyethylene) hydroxymethyl phosphonate, methylphosphonoacetate, ethyl methylphosphonoacetate, methyl ethylphosphonoacetate, ethyl ethylphosphonoacetate, propyl dimethylphosphonoacetate, methyl diethylphosphonoacetate, triethyl phosphonoacetate, hydroxymethylphosphonate, di(polyoxyethylene) hydroxymethyl phosphonate, triethyl phosphonoacetate, or combinations of two or more thereof and said composition remains soluble upon being exposed to air at about 25°C.

29. (New) A composition according to claim 1 or claim 28 wherein the P/Ti molar ratio is in the range of about 0.001 to about 20:1.

30. (New) A composition according to claim 29 wherein the P/Ti molar ratio is in the range of about 0.01 to about 10:1.

31. (New) A composition according to claim 30 wherein the P/Ti molar ratio is in the range of about 0.2 to about 1:1.